



Instituto Universitario de Investigación
de Matemáticas
y Aplicaciones
Universidad Zaragoza



Departamento de
Matemáticas
Universidad Zaragoza



Facultad de Ciencias
Universidad Zaragoza

Seminario Rubio de Francia

Conferencia

por

Tong Tang

Yangzhou University

Título:

Energy Conservation and Vanishing Viscosity Limit for the Primitive Equations

Resumen: In this talk, we consider the problem of energy conservation for weak solutions of the inviscid Primitive Equations (PE) in a bounded domain. Based on the work [Bardos et al., Onsager's conjecture with physical boundaries and an application to the vanishing viscosity limit, Comm. Math. Phys., 2019, 291-310], we prove the energy conservation for PE with boundary condition under suitable Onsager-type assumptions. But due to the special structure of PE system and its domain, some new challenging difficulties arise: the lack of information about the vertical velocity, and existing corner points in the domain. We introduce some new ideas to overcome the above obstacles. As a byproduct, we give a sufficient condition for absence of anomalous energy dissipation in the vanishing viscosity limit.

Fecha: Lunes, 6 de julio de 2026.

Hora: 12:10 horas.

Lugar: seminario Rubio de Francia, edificio de Matemáticas, primera planta.

Web: <http://anamat.unizar.es/seminario.html>